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NOTICE OF ALLOWANCE AND FEE(S) DUE

25889

7590

07/19/2010

COLLARD & ROE, P.C. 1077 NORTHERN BOULEVARD ROSLYN, NY 11576

EXAMINER HOWELL, DANIEL W ART UNIT PAPER NUMBER

3726

DATE MAILED: 07/19/2010

| | APPLICATION NO. FILING DATE | | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---|-----------------------------|------------|----------------------|---------------------|------------------|--|
| 10/588,040 02/21/2007 | | 02/21/2007 | Wolfgang Radkowitsch | | | |
| TITLE OF INVENTION, DRILL AND DRILLING METHOD | | | THOD | AL-1 PCT | | |

TITLE OF INVENTION: DRILL, AND DRILLING METHOD

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 10/19/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

| appropriate. All further indicated unless correcte maintenance fee notifica | correspondence includir ed below or directed oth tions. | ng the Patent, advance onerwise in Block 1, by | orders and notification of (a) specifying a new corr | maintenance fees v espondence address | vill be ; and/o | mailed to the current r (b) indicating a sepa | correspondence address as rate "FEE ADDRESS" for | |
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| CURRENT CORRESPOND | ENCE ADDRESS (Note: Use Bl | ock 1 for any change of address | Fe pa | Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompa papers. Each additional paper, such as an assignment or formal drawing, have its own certificate of mailing or transmission. | | | | |
| 25889 | | /2010 | | | | e of Mailing or Transı | mission | |
| COLLARD & 1077 NORTHEI ROSLYN, NY 1 | RN BOULEVARD | | I I St ad tra | nereby certify that the ates Postal Service we dressed to the Mail ansmitted to the USP | is Fee(vith su: l Stop TO (57 | ficient postage for firs ISSUE FEE address 1) 273-2885, on the day | deposited with the United t class mail in an envelope above, or being facsimile ate indicated below. | |
| | | | | | | | (Depositor's name) | |
| | | | | | | | (Signature) | |
| | | | L | | | | (Date) | |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTO | R | ATTO | DRNEY DOCKET NO. | CONFIRMATION NO. | |
| 10/588,040 | 02/21/2007 | • | Wolfgang Radkowitsch | 1 | RA | DKOWITSCH ET | 3662 | |
| TITLE OF INVENTION | : DRILL, AND DRILLI | NG METHOD | | | | AL-1 PCT | | |
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| nonprovisional | NO | \$1510 | \$300 | \$0 | | \$1810 | 10/19/2010 | |
| EXAM | IINER | ART UNIT | CLASS-SUBCLASS | 7 | | | | |
| HOWELL, I | DANIEL W | 3726 | 408-059000 | _ | | | | |
| 1. Change of corresponde CFR 1.363). | ence address or indication | n of "Fee Address" (37 | (1) the names of up to 3 registered patent attorneys 1 | | | | | |
| | ondence address (or Cha 3/122) attached. | nge of Correspondence | | | | | | |
| _ | | | (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to | | | | | |
| ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custom Number is required. | | | 2 registered attorneys or agents. If no name is listed, no name will be printed. | | | | | |
| 3. ASSIGNEE NAME A | ND RESIDENCE DATA | A TO BE PRINTED ON | THE PATENT (print or t | ype) | | | | |
| PLEASE NOTE: Unl recordation as set fort | less an assignee is ident h in 37 CFR 3.11. Comp | ified below, no assigned oletion of this form is NO | e data will appear on the OT a substitute for filing a | patent. If an assign n assignment. | ee is i | dentified below, the do | ocument has been filed for | |
| (A) NAME OF ASSIG | • | | (B) RESIDENCE: (CIT | · · | COUN | ΓRY) | | |
| | | | | | | | | |
| Please check the appropr | iate assignee category or | categories (will not be p | orinted on the patent): | ☐ Individual ☐ Co | orporat | ion or other private gro | oup entity 📮 Government | |
| 4a. The following fee(s): | are submitted: | 2 | 4b. Payment of Fee(s): (Pl | ease first reapply a | ny pre | viously paid issue fee s | shown above) | |
| Issue Fee | | | A check is enclosed | | - | | | |
| ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies | | | ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any | | | | | |
| Advance Order - 1 | # of copies | | overpayment, to Dej | osit Account Numb | er | (enclose a | n extra copy of this form). | |
| 5. Change in Entity State | tus (from status indicated s SMALL ENTITY state | | ☐ b. Applicant is no lo | ngor alaiming SMA | II EN | TITY status Sec 27 CI | ED 1.27(α)(2) | |
| NOTE: The Issue Fee an | d Publication Fee (if req | uired) will not be accept | ed from anyone other than | | | | e assignee or other party in | |
| interest as shown by the | records of the United Sta | tes Patent and Trademar | k Office. | | | | 3 1 7 | |
| Authorized Signature | | | | Date | | | | |
| Typed or printed name | | | | Registration N | No | | | |
| This collection of inform | ation is required by 37 C | CFR 1.311. The informat | ion is required to obtain o | r retain a benefit by t | he pub | lic which is to file (and | by the USPTO to process) | |
| an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223 | tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DC | U.S.C. 122 and 37 CFF USPTO. Time will var rden, should be sent to t O NOT SEND FEES OR | R 1.14. This collection is e y depending upon the ind he Chief Information Offi COMPLETED FORMS | estimated to take 12 ividual case. Any cocer, U.S. Patent and TO THIS ADDRESS | minute ommen Trader S. SEN | s to complete, includin ts on the amount of tir mark Office, U.S. Depa D TO: Commissioner f | g gathering, preparing, and ne you require to complete urtment of Commerce, P.O. For Patents, P.O. Box 1450, | |

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| 10/588,040 02/21/2007 | | Wolfgang Radkowitsch | RADKOWITSCH ET | 3662 | |
| 25889 7 | 590 07/19/2010 | | EXAM | INER | |
| COLLARD & R | OE, P.C. | HOWELL, DANIEL W | | | |
| 1077 NORTHER | N BOULEVARD | ART UNIT | PAPER NUMBER | | |
| ROSLYN, NY 11 | 576 | | 3726 | | |
| | | DATE MAIL ED: 07/10/2010 | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 710 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 710 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No | | Applicant(s) | | | | | |
|---|---|---|---|---------------------------|--|--|--|--|
| | 10/588,040 | | RADKOWITSCH ET AL. | | | | | |
| Notice of Allowability | Examiner | | Art Unit | , | | | | |
| | Daniel W. Howe | sii | 3726 | | | | | |
| | Damer W. Howe | 11 | 3720 | | | | | |
| The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) or other appropri GHTS. This app | CLOSED in this appli ate communication v lication is subject to | ication. If not include will be mailed in due | ed course. THIS | | | | |
| 1. This communication is responsive to <u>6-30-10</u> . | | | | | | | | |
| 2. \boxtimes The allowed claim(s) is/are <u>98-115 and 117-194</u> . | | | | | | | | |
| 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. | | | | | | | | |
| 2. ☐ Certified copies of the priority documents have | | Application No | | | | | | |
| 3. Copies of the certified copies of the priority do | | · · | | tion from the | | | | |
| International Bureau (PCT Rule 17.2(a)). | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | anonar otago approar | | | | | |
| * Certified copies not received: | | | | | | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | | | | | | | |
| 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. | | | | | | | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. | | | | | | | |
| (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached | | | | | | | | |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | | | | | | | | |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date | | | | | | | | |
| Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). | | | | | | | | |
| 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. | | | | | | | | |
| | | | | | | | | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) | 5 - N | lotice of Informal Pa | tant Application | | | | | |
| Induce of References Cited (PTO-692) Induce of References Cited (PTO- | | nterview Summary (F | | | | | | |
| · · · · · · · · · · · · · · · · · · · | | Paper No./Mail Date | · | | | | | |
| 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date | 7. 🔀 E | Examiner's Amendme | ent/Comment | | | | | |
| 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material | _ | | nt of Reasons for Allo | wance | | | | |
| | 9. 📙 🤆 | Other | | | | | | |
| /Daniel W. Howell/ Primary Examiner, Art Unit 3726 | | | | | | | | |
| Timary Examiner, Art Offic 3720 | | | | | | | | |
| | | | | | | | | |

Application/Control Number: 10/588,040 Page 2

Art Unit: 3726

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

On line 29 of claim 149, the second "head" has been changed to "bead."

- 2. Claims 98-115 and 117-194 are allowed.
- 3. Any inquiry concerning the content of this communication from the examiner should be directed to Daniel Howell, whose telephone number is 571-272-4478. The examiner's office hours are typically about 10 am until 6:30 pm, Monday through Friday. The examiner's supervisor, David Bryant, may be reached at 571-272-4526.

In order to reduce pendency and avoid potential delays, Group 3720 is encouraging FAXing of responses to Office actions directly into the Group at FAX number to 571-273-8300. This practice may be used for filing papers not requiring a fee. It may also be used for filing papers which require a fee by applicants who authorize charges to a USPTO deposit account. Please identify Examiner Daniel Howell of Art Unit 3726 at the top of your cover sheet.

/Daniel W. Howell/

Primary Examiner, Art Unit 3726